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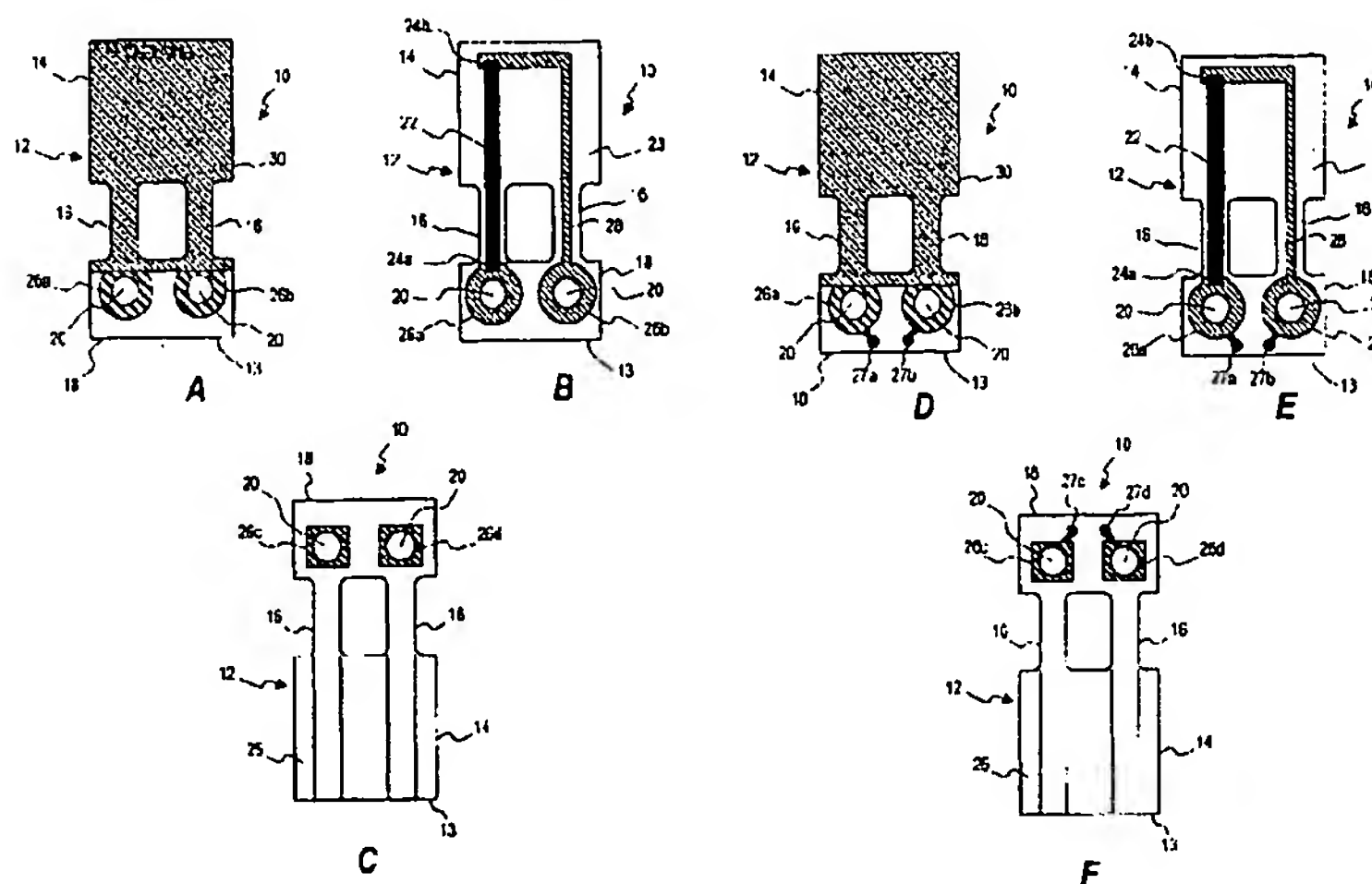
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(54) Title: **SENSOR FOR DETECTING AIR FLOW**



(57) Abstract: An air flow sensor comprises a flexible resistive element permanently affixed to a flexible substrate. The air flow sensor is positioned in an inlet for airway to insure the inlet is cover at all times other than during the inhalation. When a vacuum is applied to the airway, a resulting drop in air pressure within the airway causes air to flow through the inlet and airway, causing the sensor's substrate to flex. Flexure of the substrate also causes a resistive element to flex, resulting in a change in the electrical resistance of the resistive element, such as an increase in resistance. Flexure of the sensor is enhanced by flexible leads, which serve as a hinge point. An air shield may be positioned around the periphery of the air flow sensor to channel and restrict the movement of air flowing through the air inlet, thereby enhancing movement of the sensor.



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**SUPPLEMENTARY
EUROPEAN SEARCH REPORT**

Application Number
EP 04 81 2741

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 97/05824 A (RESMED LTD [AU]; BRYDON JOHN WILLIAM ERNEST [AU]; CAPPBUS HANS JOACHIM) 20 February 1997 (1997-02-20) * page 4, line 22 - page 5, line 9 * * page 8, line 9 - page 12, line 18 * * page 13, line 12 - page 15, line 2; figures 9-12,16,17 *	1-3,5,8,9,12,13	INV. A61M11/00 A61M15/00 A61B5/08 A61M16/00 A61B7/00 G01F1/00
Y	-----	11	
Y	US 4 729 244 A (FURUSE AKIO [JP]) 8 March 1988 (1988-03-08) * column 3, line 10 - line 31; figure 1 *	11	
X	----- US 2002/174724 A1 (BENZEL HUBERT [DE] ET AL) 28 November 2002 (2002-11-28) * page 2, left hand column, paragraph 3 - paragraph 7; page 2, right hand column, last paragraph - page 3, left hand column, paragraph 3; figures 1,5,7 * -----	1,3	
			TECHNICAL FIELDS SEARCHED (IPC)
			G01F
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
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